BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Kogilu layout		56.00				56.00	
	Kattigenehalli		49.00				49.00	
	Agrahara layout		59.00				59.00	
	Agrahara village		46.00				46.00	
	Basavalingappa nagara		52.00				52.00	
	Jakkur village		46.00				46.00	
							308.00	120.00
33	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 6 Sqm mm with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Mtr						
	Kogilu layout		2.00	378.90			757.80	
	Kattigenehalli		2.00	291.88			583.76	
	Agrahara layout		2.00	387.29			774.58	
	Agrahara village		2.00	204.21			408.42	
	Basavalingappa nagara		2.00	252.20			504.40	
	Jakkur village		2.00	237.70			475.40	
							3504.36	174.00
34	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		No						
	Kogilu layout		1.00				1.00	
	Kattigenehalli		1.00				1.00	
	Agrahara layout		1.00				1.00	
	Agrahara village		1.00				1.00	
	Basavalingappa nagara		1.00				1.00	
	Jakkur village		1.00				1.00	
							6.00	2760.00
35	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							

R.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
		Each						
	Kogilu layout		1.00				1.00	
	Kattigenehalli		1.00				1.00	
	Agrahara layout		1.00				1.00	
	Agrahara village		1.00				1.00	
	Basavalingappa nagara		1.00				1.00	
	Jakkur village		1.00				1.00	
							6.00	278.00
36	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A P No. 55/ I No. 7.4.4 4 core 16 Sqmm with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Mtr						
	Kogilu layout		1.00	33.00			33.00	
	Kattigenehalli		1.00	39.00			39.00	
	Agrahara layout		1.00	26.00			26.00	
	Agrahara village		1.00	24.00			24.00	
	Basavalingappa nagara		1.00	23.00			23.00	
	Jakkur village		1.00	65.00			65.00	
							210.00	129.00
37	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Mtr						
	Kogilu layout		1.00	33.00			33.00	
	Kattigenehalli		1.00	39.00			39.00	
	Agrahara layout		1.00	26.00			26.00	
	Agrahara village		1.00	24.00			24.00	
	Basavalingappa nagara		1.00	23.00			23.00	
	Jakkur village		1.00	65.00			65.00	
							210.00	10.00
38	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) P No. 61 / I. No. 7.9.3 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	For Cutting Road Surface	Mtr						

B.V.H. Consultants Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Kogilu layout		1.00	27.00			27.00	
	Kattigenehalli		1.00	31.00			31.00	
	Agrahara layout		1.00	21.00			21.00	
	Agrahara village		1.00	19.00			19.00	
	Basavalingappa nagara		1.00	19.00			19.00	
	Jakkur village		1.00	58.00			58.00	
							175.00	**78.00**
39	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV P. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	40 mm dia GI pipe	**Mtr**						
	Kogilu layout		1.00	4.00			4.00	
	Kattigenehalli		1.00	4.00			4.00	
	Agrahara layout		1.00	4.00			4.00	
	Agrahara village		1.00	4.00			4.00	
	Basavalingappa nagara		1.00	4.00			4.00	
	Jakkur village		1.00	4.00			4.00	
							24.00	**317.00**
40	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	16 sq mm	**No**						
	Kogilu layout		1.00				1.00	
	Kattigenehalli		1.00				1.00	
	Agrahara layout		1.00				1.00	
	Agrahara village		1.00				1.00	
	Basavalingappa nagara		1.00				1.00	
	Jakkur village		1.00				1.00	
							6.00	**258.00**

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
41	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		No						
	Kogilu layout		1.00				1.00	
	Kattigenehalli		1.00				1.00	
	Agrahara layout		1.00				1.00	
	Agrahara village		1.00				1.00	
	Basavalingappa nagara		1.00				1.00	
	Jakkur village		1.00				1.00	
							6.00	**2509.00**
42	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	32 Amps	**No**						
	Kogilu layout		6.00				6.00	
	Kattigenehalli		6.00				6.00	
	Agrahara layout		6.00				6.00	
	Agrahara village		6.00				6.00	
	Basavalingappa nagara		6.00				6.00	
	Jakkur village		6.00				6.00	
							36.00	**166.00**
43	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		No						
	Kogilu layout		1.00				1.00	
	Kattigenehalli		1.00				1.00	
	Agrahara layout		1.00				1.00	
	Agrahara village		1.00				1.00	
	Basavalingappa nagara		1.00				1.00	
	Jakkur village		1.00				1.00	

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
							6.00	1486.00
44	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	50mm dia	**No**						
	Kogilu layout		1.00				1.00	
	Kattigenehalli		1.00				1.00	
	Agrahara layout		1.00				1.00	
	Agrahara village		1.00				1.00	
	Basavalingappa nagara		1.00				1.00	
	Jakkur village		1.00				1.00	
							6.00	214.00
45	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete							
		No						
	Kogilu layout		1.00	4.00			4.00	
	Kattigenehalli		1.00	4.00			4.00	
	Agrahara layout		1.00	4.00			4.00	
	Agrahara village		1.00	4.00			4.00	
	Basavalingappa nagara		1.00	4.00			4.00	
	Jakkur village		1.00	4.00			4.00	
							24.00	74.00
46	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications							
		No						
	Kogilu layout		1.00				1.00	
	Kattigenehalli		1.00				1.00	
	Agrahara layout		1.00				1.00	
	Agrahara village		1.00				1.00	
	Basavalingappa nagara		1.00				1.00	
	Jakkur village		1.00				1.00	
							6.00	322.00

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
47	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps TPN with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		No						
	Kogilu layout		1.00				1.00	
	Kattigenehalli		1.00				1.00	
	Agrahara layout		1.00				1.00	
	Agrahara village		1.00				1.00	
	Basavalingappa nagara		1.00				1.00	
	Jakkur village		1.00				1.00	
							6.00	**1423.00**
48	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete - 16SWG - with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	16 SWG	**Sq.cm**						
	Kogilu layout		2	120.00	60.00		14400.00	
			1	300.00	25.00		7500.00	
	Kattigenehalli		2	120.00	60.00		14400.00	
			1	300.00	25.00		7500.00	
	Agrahara layout		2	120.00	60.00		14400.00	
			1	300.00	25.00		7500.00	
	Agrahara village		2	120.00	60.00		14400.00	
			1	300.00	25.00		7500.00	
	Basavalingappa nagara		2	120.00	60.00		14400.00	
			1	300.00	25.00		7500.00	
	Jakkur village		2	120.00	60.00		14400.00	
			1	300.00	25.00		7500.00	
							131400.00	**0.30**

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

30/4/2018

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
49	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. 12.5HP to 15 HP Star Delta Starter SERDED with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		No						
	Kogilu layout		1.00				1.00	
	Kattigenehalli		1.00				1.00	
	Agrahara layout		1.00				1.00	
	Agrahara village		1.00				1.00	
	Basavalingappa nagara		1.00				1.00	
	Jakkur village		1.00				1.00	
							6.00	10120.00
50	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. Hard Soil- with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Cum						
	Kogilu layout		1.00	61.00	0.60	0.75	27.45	
	Kattigenehalli		1.00	17.00	0.60	0.75	7.65	
	Agrahara layout		1.00	58.00	0.60	0.75	26.10	
	Agrahara village		1.00	70.00	0.60	0.75	31.50	
	Basavalingappa nagara		1.00	83.00	0.60	0.75	37.35	
	Jakkur village		1.00	35.00	0.60	0.75	15.75	
							145.80	173.00
51	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	75 mm dia 6 KSC PVC pipe	Rmtr						
	Kogilu layout		1.00	72.00			72.00	
	Kattigenehalli		1.00	28.00			28.00	

P.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Agrahara layout		1.00	69.00			69.00	
	Agrahara village		1.00	81.00			81.00	
	Basavalingappa nagara		1.00	93.00			93.00	
	Jakkur village		1.00	45.00			45.00	
							388.00	144.00
52	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Cum						
	Kogilu layout		1.00	61.00	0.60	0.75	27.45	
	Kattigenehalli		1.00	17.00	0.60	0.75	7.65	
	Agrahara layout		1.00	58.00	0.60	0.75	26.10	
	Agrahara village		1.00	70.00	0.60	0.75	31.50	
	Basavalingappa nagara		1.00	83.00	0.60	0.75	37.35	
	Jakkur village		1.00	35.00	0.60	0.75	15.75	
							145.80	56.00
53	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Each						
	Kogilu layout		2				2.00	
	Kattigenehalli		2				2.00	
	Agrahara layout		2				2.00	
	Agrahara village		2				2.00	
	Basavalingappa nagara		2				2.00	
	Jakkur village		2				2.00	
							12.00	2039.00
	ROOM FOR R.O. PLANT							
54	KSRB 2-2.2 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
		Cum						
	Kogilu							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
	Deduction for Columns		4	1.50	0.90	0.40	-2.16	
	Kogilu layout							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
	Deduction for Columns		4	1.50	0.90	0.40	-2.16	
	Kattigenehalli							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
	Deduction for Columns		4	1.50	0.90	0.40	-2.16	
	Agrahara layout							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
	Deduction for Columns		4	1.50	0.90	0.40	-2.16	
	Agrahara village							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
	Deduction for Columns		4	1.50	0.90	0.40	-2.16	
	Basavalingappa nagara							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
	Deduction for Columns		4	1.50	0.90	0.40	-2.16	
	Jakkur village							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
	Deduction for Columns		4	1.50	0.90	0.40	-2.16	
							153.23	**188.00**
55	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Cum						
	Kogilu							
	For Wall Portion		1	18.40	0.90	0.15	2.48	
			4	1.50	1.50	0.15	1.35	
	For Flooring		1	4.70	4.10	0.15	2.89	

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Kogilu layout							
	For Wall Portion		1	18.40	0.90	0.15	2.48	
			4	1.50	1.50	0.15	1.35	
	For Flooring		1	4.70	4.10	0.15	2.89	
	Kattigenehalli							
	For Wall Portion		1	18.40	0.90	0.15	2.48	
			4	1.50	1.50	0.15	1.35	
	For Flooring		1	4.70	4.10	0.15	2.89	
	Agrahara layout							
	For Wall Portion		1	18.40	0.90	0.15	2.48	
			4	1.50	1.50	0.15	1.35	
	For Flooring		1	4.70	4.10	0.15	2.89	
	Agrahara village							
	For Wall Portion		1	18.40	0.90	0.15	2.48	
			4	1.50	1.50	0.15	1.35	
	For Flooring		1	4.70	4.10	0.15	2.89	
	Basavalingappa nagara							
	For Wall Portion		1	18.40	0.90	0.15	2.48	
			4	1.50	1.50	0.15	1.35	
	For Flooring		1	4.70	4.10	0.15	2.89	
	Jakkur village							
	For Wall Portion		1	18.40	0.90	0.15	2.48	
			4	1.50	1.50	0.15	1.35	
	For Flooring		1	4.70	4.10	0.15	2.89	
	For Flagging Course		2	7.50	0.20	0.10	0.30	
							47.37	**4836.00**
56	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Cum						
	Kogilu							
	For Wall Portion		1	18.40	0.75	0.60	8.28	
	Deduction for Columns		4	1.50	0.75	0.60	-2.70	
	Kogilu layout							
	For Wall Portion		1	18.40	0.75	0.60	8.28	
	Deduction for Columns		4	1.50	0.75	0.60	-2.70	
	Kattigenehalli							
	For Wall Portion		1	18.40	0.75	0.60	8.28	
	Deduction for Columns		4	1.50	0.75	0.60	-2.70	
	Agrahara layout							

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	For Wall Portion		1	18.40	0.75	0.60	8.28	
	Deduction for Columns		4	1.50	0.75	0.60	-2.70	
	Agrahara village							
	For Wall Portion		1	18.40	0.75	0.60	8.28	
	Deduction for Columns		4	1.50	0.75	0.60	-2.70	
	Basavalingappa nagara							
	For Wall Portion		1	18.40	0.75	0.60	8.28	
	Deduction for Columns		4	1.50	0.75	0.60	-2.70	
	Jakkur village							
	For Wall Portion		1	18.40	0.75	0.60	8.28	
	Deduction for Columns		4	1.50	0.75	0.60	-2.70	
							39.06	**4160.00**
57	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Cum						
	Kogilu							
	For Wall Portion		1	18.40	0.45	0.45	3.73	
	Deduction for Columns		4	1.50	0.45	0.45	-1.22	
	Kogilu layout							
	For Wall Portion		1	18.40	0.45	0.45	3.73	
	Deduction for Columns		4	1.50	0.45	0.45	-1.22	
	Kattigenehalli							
	For Wall Portion		1	18.40	0.45	0.45	3.73	
	Deduction for Columns		4	1.50	0.45	0.45	-1.22	
	Agrahara layout							
	For Wall Portion		1	18.40	0.45	0.45	3.73	
	Deduction for Columns		4	1.50	0.45	0.45	-1.22	
	Agrahara village							
	For Wall Portion		1	18.40	0.45	0.45	3.73	
	Deduction for Columns		4	1.50	0.45	0.45	-1.22	
	Basavalingappa nagara							
	For Wall Portion		1	18.40	0.45	0.45	3.73	
	Deduction for Columns		4	1.50	0.45	0.45	-1.22	
	Jakkur village							
	For Wall Portion		1	18.40	0.45	0.45	3.73	
	Deduction for Columns		4	1.50	0.45	0.45	-1.22	
							17.57	**4973.00**

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
58	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No. KBS 2.9 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Cum						
	Kogilu							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
	Kogilu layout							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
	Kattigenehalli							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
	Agrahara layout							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
	Agrahara village							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
	Basavalingappa nagara							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
	Jakkur village							
	Centre Line		1	18.40	0.90	0.80	13.25	
	Columns		4	1.50	1.50	1.20	10.80	
							168.35	**126.00**
59	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu							
	For Wall Portion		2	5.10		3.00	30.60	
			2	4.10		3.00	24.60	
	For Parapet Wall		2	5.55		0.40	4.44	
			2	4.10		0.40	3.28	
	For Steps		1	4.10		0.10	0.41	

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Deduction for Rolling Shutter		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.60		0.90	-1.08	
	Kogilu layout							
	For Wall Portion		2	5.10		3.00	30.60	
			2	4.10		3.00	24.60	
	For Parapet Wall		2	5.55		0.40	4.44	
			2	4.10		0.40	3.28	
	For Steps		1	4.10		0.10	0.41	
	Deduction for Rolling Shutter		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.60		0.90	-1.08	
	Kattigenehalli							
	For Wall Portion		2	5.10		3.00	30.60	
			2	4.10		3.00	24.60	
	For Parapet Wall		2	5.55		0.40	4.44	
			2	4.10		0.40	3.28	
	For Steps		1	4.10		0.10	0.41	
	Deduction for Rolling Shutter		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.60		0.90	-1.08	
	Agrahara layout							
	For Wall Portion		2	5.10		3.00	30.60	
			2	4.10		3.00	24.60	
	For Parapet Wall		2	5.55		0.40	4.44	
			2	4.10		0.40	3.28	
	For Steps		1	4.10		0.10	0.41	
	Deduction for Rolling Shutter		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.60		0.90	-1.08	
	Agrahara village							
	For Wall Portion		2	5.10		3.00	30.60	
			2	4.10		3.00	24.60	
	For Parapet Wall		2	5.55		0.40	4.44	
			2	4.10		0.40	3.28	
	For Steps		1	4.10		0.10	0.41	
	Deduction for Rolling Shutter		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.60		0.90	-1.08	
	Basavalingappa nagara							
	For Wall Portion		2	5.10		3.00	30.60	
			2	4.10		3.00	24.60	
	For Parapet Wall		2	5.55		0.40	4.44	
			2	4.10		0.40	3.28	
	For Steps		1	4.10		0.10	0.41	
	Deduction for Rolling Shutter		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.60		0.90	-1.08	
	Jakkur village							
	For Wall Portion		2	5.10		3.00	30.60	
			2	4.10		3.00	24.60	

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	For Parapet Wall		2	5.55		0.40	4.44	
			2	4.10		0.40	3.28	
	For Steps		1	4.10		0.10	0.41	
	For Flagging Course		2	7.50		0.40	6.00	
	Deduction for Rolling Shutter		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.60		0.90	-1.08	
							388.55	**931.00**
63	KSRB 4.9.1: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		MT						
			7				0.964	
							6.75	**69075.00**
64	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu							
	For Footings		4	4.80		0.50	9.60	
	For Columns		4	0.92		4.00	14.72	
	For Plinth Beam		1	18.40		0.20	3.68	
	For Lintel		1	18.40		0.15	2.76	
	For Roof Slab		1	5.55	4.50		24.97	
	For Sides		2	5.55		0.15	1.66	
			2	4.50		0.15	1.35	
	Kogilu layout							
	For Footings		4	4.80		0.50	9.60	
	For Columns		4	0.92		4.00	14.72	
	For Plinth Beam		1	18.40		0.20	3.68	
	For Lintel		1	18.40		0.15	2.76	
	For Roof Slab		1	5.55	4.50		24.97	
	For Sides		2	5.55		0.15	1.66	
			2	4.50		0.15	1.35	

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Kattigenehalli							
	For Footings		4	4.80		0.50	9.60	
	For Columns		4	0.92		4.00	14.72	
	For Plinth Beam		1	18.40		0.20	3.68	
	For Lintel		1	18.40		0.15	2.76	
	For Roof Slab		1	5.55	4.50		24.97	
	For Sides		2	5.55		0.15	1.66	
			2	4.50		0.15	1.35	
	Agrahara layout							
	For Footings		4	4.80		0.50	9.60	
	For Columns		4	0.92		4.00	14.72	
	For Plinth Beam		1	18.40		0.20	3.68	
	For Lintel		1	18.40		0.15	2.76	
	For Roof Slab		1	5.55	4.50		24.97	
	For Sides		2	5.55		0.15	1.66	
			2	4.50		0.15	1.35	
	Agrahara village							
	For Footings		4	4.80		0.50	9.60	
	For Columns		4	0.92		4.00	14.72	
	For Plinth Beam		1	18.40		0.20	3.68	
	For Lintel		1	18.40		0.15	2.76	
	For Roof Slab		1	5.55	4.50		24.97	
	For Sides		2	5.55		0.15	1.66	
			2	4.50		0.15	1.35	
	Basavalingappa nagara							
	For Footings		4	4.80		0.50	9.60	
	For Columns		4	0.92		4.00	14.72	
	For Plinth Beam		1	18.40		0.20	3.68	
	For Lintel		1	18.40		0.15	2.76	
	For Roof Slab		1	5.55	4.50		24.97	
	For Sides		2	5.55		0.15	1.66	
			2	4.50		0.15	1.35	
	Jakkur village							
	For Footings		4	4.80		0.50	9.60	
	For Columns		4	0.92		4.00	14.72	
	For Plinth Beam		1	18.40		0.20	3.68	
	For Lintel		1	18.40		0.15	2.76	
	For Roof Slab		1	5.55	4.50		24.97	
	For Sides		2	5.55		0.15	1.66	
			2	4.50		0.15	1.35	
							411.18	**291.00**

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
65	KSRB 4-6.10 : Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu							
	For Chejja		2	0.90	0.60		1.08	
	Kogilu layout							
	For Chejja		2	0.90	0.60		1.08	
	Kattigenehalli							
	For Chejja		2	0.90	0.60		1.08	
	Agrahara layout							
	For Chejja		2	0.90	0.60		1.08	
	Agrahara village							
	For Chejja		2	0.90	0.60		1.08	
	Basavalingappa nagara							
	For Chejja		2	0.90	0.60		1.08	
	Jakkur village							
	For Chejja		2	0.90	0.60		1.08	
							7.56	**268.00**
60	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Cum						
	Kogilu							
	For Footings		4	1.20	1.20	0.50	2.88	
	For Columns		4	0.23	0.23	3.80	0.80	
	For Plinth Beam		1	18.40	0.20	0.20	0.73	
	For Lintel		1	18.40	0.20	0.15	0.55	
	For Roof Slab		1	5.55	4.50	0.125	3.12	
	Kogilu layout							
	For Footings		4	1.20	1.20	0.50	2.88	

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	For Columns		4	0.23	0.23	3.80	0.80	
	For Plinth Beam		1	18.40	0.20	0.20	0.74	
	For Lintel		1	18.40	0.20	0.15	0.55	
	For Roof Slab		1	5.55	4.50	0.125	3.12	
	Kattigenehalli							
	For Footings		4	1.20	1.20	0.50	2.88	
	For Columns		4	0.23	0.23	3.80	0.80	
	For Plinth Beam		1	18.40	0.20	0.20	0.73	
	For Lintel		1	18.40	0.20	0.15	0.55	
	For Roof Slab		1	5.55	4.50	0.125	3.12	
	Agrahara layout							
	For Footings		4	1.20	1.20	0.50	2.88	
	For Columns		4	0.23	0.23	3.80	0.80	
	For Plinth Beam		1	18.40	0.20	0.20	0.73	
	For Lintel		1	18.40	0.20	0.15	0.55	
	For Roof Slab		1	5.55	4.50	0.125	3.12	
	Agrahara village							
	For Footings		4	1.20	1.20	0.50	2.88	
	For Columns		4	0.23	0.23	3.80	0.80	
	For Plinth Beam		1	18.40	0.20	0.20	0.73	
	For Lintel		1	18.40	0.20	0.15	0.55	
	For Roof Slab		1	5.55	4.50	0.125	3.12	
	Basavalingappa nagara							
	For Footings		4	1.20	1.20	0.50	2.88	
	For Columns		4	0.23	0.23	3.80	0.80	
	For Plinth Beam		1	18.40	0.20	0.20	0.73	
	For Lintel		1	18.40	0.20	0.15	0.55	
	For Roof Slab		1	5.55	4.50	0.125	3.12	
	Jakkur village							
	For Footings		4	1.20	1.20	0.50	2.88	
	For Columns		4	0.23	0.23	3.80	0.80	
	For Plinth Beam		1	18.40	0.20	0.20	0.73	
	For Lintel		1	18.40	0.20	0.15	0.55	
	For Roof Slab		1	5.55	4.50	0.125	3.12	
							56.62	**5973.00**
62	KSRB 4.2.10 : Providing and laying in position reinforced cement concrete ofmix M20 with OPC cement @ 24kgs, with 12 mm and down size graded granite metal coarse aggregates @ 0.5175 cum and fine aggregates @ 0.345 cum with superplastisiser @ 0.225lts,machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor lever, including cost of all materials, labour, HOM of machinery, curing, complete as per specification. Specification NO. KBS 4.1, 4.6 with all lead and lift, loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							

P.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
		Cum						
	Kogilu							
	For Chejja		2	1.20	0.45		1.08	
	Kogilu layout							
	For Chejja		2	1.20	0.45		1.08	
	Kattigenehalli							
	For Chejja		2	1.20	0.45		1.08	
	Agrahara layout							
	For Chejja		2	1.20	0.45		1.08	
	Agrahara village							
	For Chejja		2	1.20	0.45		1.08	
	Basavalingappa nagara							
	For Chejja		2	1.20	0.45		1.08	
	Jakkur village							
	For Chejja		2	1.20	0.45		1.08	
							7.56	453.00
66	KSRB 15.3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu							
	For Ceiling		1	4.70	4.10		19.27	
	Kogilu layout							
	For Ceiling		1	4.70	4.10		19.27	
	Kattigenehalli							
	For Ceiling		1	4.70	4.10		19.27	
	Agrahara layout							
	For Ceiling		1	4.70	4.10		19.27	
	Agrahara village							
	For Ceiling		1	4.70	4.10		19.27	
	Basavalingappa nagara							
	For Ceiling		1	4.70	4.10		19.27	
	Jakkur village							
	For Ceiling		1	4.70	4.10		19.27	
							134.89	192.00

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
67	KSRB 15.3.11 :Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Inside wall) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu							
	For Inside Surface of the Wall		2	4.70		3.00	28.20	
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Kogilu layout							
	For Inside Surface of the Wall		2	4.70		3.00	28.20	
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Kattigenehalli							
	For Inside Surface of the Wall		2	4.70		3.00	28.20	
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Agrahara layout							
	For Inside Surface of the Wall		2	4.70		3.00	28.20	
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Agrahara village							
	For Inside Surface of the Wall		2	4.70		3.00	28.20	
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Basavalingappa nagara							
	For Inside Surface of the Wall		2	4.70		3.00	28.20	
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Jakkur village							
	For Inside Surface of the Wall		2	4.70		3.00	28.20	
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
							308.84	233.00

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
68	KSRB 15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu							
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2	4.70		3.00	28.20	
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Kogilu layout							
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2	4.70		3.00	28.20	
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Kattigenehalli							
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2	4.70		3.00	28.20	
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Agrahara layout							
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2	4.70		3.00	28.20	
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Agrahara village							
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2	4.70		3.00	28.20	
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Basavalingappa nagara							
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2	4.70		3.00	28.20	
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Jakkur village							
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2	4.70		3.00	28.20	

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
			2	4.10		3.00	24.60	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
							443.73	25.00
69	KSRB 15.3.9: Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (Out side Wall) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Kogilu layout							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Kattigenehalli							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Agrahara layout							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Agrahara village							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Basavalingappa nagara							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Jakkur village							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer 19/4/18

Assistant Executive Engineer 19/4/18

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
							402.92	197.00
70	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foregin matter including preparing the surface even and sand paper smooth, cost of materials, labours, complete as per specifications with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu							
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2*2	4.70		3.00	56.40	
			2*2	4.10		3.00	49.20	
	Deduction for Rolling Shutters		1*2	3.04		2.50	-15.20	
	Deduction for Ventilator		2*2	0.90		0.60	-2.16	
	Kogilu layout							
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2*2	4.70		3.00	56.40	
			2*2	4.10		3.00	49.20	
	Deduction for Rolling Shutters		1*2	3.04		2.50	-15.20	
	Deduction for Ventilator		2*2	0.90		0.60	-2.16	
	Kattigenehalli							
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2*2	4.70		3.00	56.40	
			2*2	4.10		3.00	49.20	
	Deduction for Rolling Shutters		1*2	3.04		2.50	-15.20	
	Deduction for Ventilator		2*2	0.90		0.60	-2.16	
	Agrahara layout							
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2*2	4.70		3.00	56.40	
			2*2	4.10		3.00	49.20	
	Deduction for Rolling Shutters		1*2	3.04		2.50	-15.20	
	Deduction for Ventilator		2*2	0.90		0.60	-2.16	
	Agrahara village							
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2*2	4.70		3.00	56.40	
			2*2	4.10		3.00	49.20	
	Deduction for Rolling Shutters		1*2	3.04		2.50	-15.20	
	Deduction for Ventilator		2*2	0.90		0.60	-2.16	
	Basavalingappa nagara							

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2*2	4.70		3.00	56.40	
			2*2	4.10		3.00	49.20	
	Deduction for Rolling Shutters		1*2	3.04		2.50	-15.20	
	Deduction for Ventilator		2*2	0.90		0.60	-2.16	
	Jakkur village							
	For Ceiling		1	4.70	4.10		19.27	
	For Inside Surface of the Wall		2*2	4.70		3.00	56.40	
			2*2	4.10		3.00	49.20	
	Deduction for Rolling Shutters		1*2	3.04		2.50	-15.20	
	Deduction for Ventilator		2*2	0.90		0.60	-2.16	
							752.57	**71.00**
71	KSRB 15-16.1: providing and finishing external walls in two coats with water proof cement paint of approve brand and shade to give an even shade after thourghly brooming the surface to remove all dirt and losse powdered material, free from mortar dops and other foreign matter cost of materials, labours, complete as per specifications with Primer with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Kogilu layout							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Kattigenehalli							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Agrahara layout							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Agrahara village							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Basavalingappa nagara							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
	Jakkur village							
	For Outside Surface of the Wall		2	5.10		3.45	35.19	
			2	4.50		3.45	31.05	
	Deduction for Rolling Shutters		1	3.04		2.50	-7.60	
	Deduction for Ventilator		2	0.90		0.60	-1.08	
							402.92	**83.00**
72	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu							
	Rolling Shutters		1*2	6.04		2.50	30.20	
	Ventilator		2	0.60		0.90	1.08	
	Kogilu layout							
	Rolling Shutters		1*2	6.04		2.50	30.20	
	Ventilator		2	0.60		0.90	1.08	
	Kattigenehalli							
	Rolling Shutters		1*2	6.04		2.50	30.20	
	Ventilator		2	0.60		0.90	1.08	
	Agrahara layout							
	Rolling Shutters		1*2	6.04		2.50	30.20	
	Ventilator		2	0.60		0.90	1.08	
	Agrahara village							
	Rolling Shutters		1*2	6.04		2.50	30.20	
	Ventilator		2	0.60		0.90	1.08	
	Basavalingappa nagara							
	Rolling Shutters		1*2	6.04		2.50	30.20	
	Ventilator		2	0.60		0.90	1.08	
	Jakkur village							
	Rolling Shutters		1*2	6.04		2.50	30.20	
	Ventilator		2	0.60		0.90	1.08	
							218.96	**81.00**

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer 30/4/18

Assistant Executive Engineer 30/4/2018

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
73	Providing and fixing Special make glazed Vitrified tiles (Granomite finis) of approved make, quality and colour of sized 6000x600x10mm thick fixed on existing flooring wit ha special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu							
	For Flooring		1	4.70	4.10		19.27	
	For Walls		2	4.70		1.50	14.10	
			2	4.10		1.50	12.30	
	Deduction for Rolling Shutter		1	3.05		1.50	-4.58	
	Kogilu layout							
	For Flooring		1	4.70	4.10		19.27	
	For Walls		2	4.70		1.50	14.10	
			2	4.10		1.50	12.30	
	Deduction for Rolling Shutter		1	3.05		1.50	-4.58	
	Kattigenehalli							
	For Flooring		1	4.70	4.10		19.27	
	For Walls		2	4.70		1.50	14.10	
			2	4.10		1.50	12.30	
	Deduction for Rolling Shutter		1	3.05		1.50	-4.58	
	Agrahara layout							
	For Flooring		1	4.70	4.10		19.27	
	For Walls		2	4.70		1.50	14.10	
			2	4.10		1.50	12.30	
	Deduction for Rolling Shutter		1	3.05		1.50	-4.58	
	Agrahara village							
	For Flooring		1	4.70	4.10		19.27	
	For Walls		2	4.70		1.50	14.10	
			2	4.10		1.50	12.30	
	Deduction for Rolling Shutter		1	3.05		1.50	-4.58	
	Basavalingappa nagara							
	For Flooring		1	4.70	4.10		19.27	
	For Walls		2	4.70		1.50	14.10	
			2	4.10		1.50	12.30	
	Deduction for Rolling Shutter		1	3.05		1.50	-4.58	
	Jakkur village							
	For Flooring		1	4.70	4.10		19.27	
	For Walls		2	4.70		1.50	14.10	
			2	4.10		1.50	12.30	
	Deduction for Rolling Shutter		1	3.05		1.50	-4.58	
							287.67	1182.00

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
74	Providing and laying/fixing cement base, precast pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring reads of steps of steps and landin, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of material,s including cutting, griding the edge ti half/ful rounf wherever requires labour, curing complete as per specification with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu		4.00	2.50		0.45	4.50	
	Kogilu layout		4.00	2.50		0.45	4.50	
	Kattigenehalli		4.00	2.50		0.45	4.50	
	Agrahara layout		4.00	2.50		0.45	4.50	
	Agrahara village		4.00	2.50		0.45	4.50	
	Basavalingappa nagara		4.00	2.50		0.45	4.50	
	Jakkur village		4.00	2.50		0.45	4.50	
							31.50	1078.00
75	KSRB 7.7 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm thick reeded glass with teakwood beading of required size, all steel section should confirm to I.S. 7452:1990, 4nos, of holdfasts of approved size section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be thoroughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification NO. KBS 7.12.1 / 7.12.2 / 7.12.3 / 7.12 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu							
	Ventilators		2	0.60		0.90	1.08	
	Kogilu layout							
	Ventilators		2	0.60		0.90	1.08	
	Kattigenehalli							
	Ventilators		2	0.60		0.90	1.08	
	Agrahara layout							
	Ventilators		2	0.60		0.90	1.08	
	Agrahara village							
	Ventilators		2	0.60		0.90	1.08	

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Basavalingappa nagara							
	Ventilators		2	0.60		0.90	1.08	
	Jakkur village							
	Ventilators		2	0.60		0.90	1.08	
							7.56	**3507.00**
76	KSRB: 7.5 Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & operations complete Including pulling hooks, 4nos handles wit hall fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8m Specification NO. KBS 7.10 / 7.12 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqm						
	Kogilu							
	Rolling Shutters		1	3.00		2.50	7.50	
	Kogilu layout							
	Rolling Shutters		1	3.00		2.50	7.50	
	Kattigenehalli							
	Rolling Shutters		1	3.00		2.50	7.50	
	Agrahara layout							
	Rolling Shutters		1	3.00		2.50	7.50	
	Agrahara village							
	Rolling Shutters		1	3.00		2.50	7.50	
	Basavalingappa nagara							
	Rolling Shutters		1	3.00		2.50	7.50	
	Jakkur village							
	Rolling Shutters		1	3.00		2.50	7.50	
							52.50	**2844.00**
	Providing R.O. PLANT							
77	Providing revsrse osmosis system to cover2000 Liters of High TDS water per hour							
	TECHNICAL SPECIFICATIONS							
	Flow Rate:							
	Feed Water : 5000 LPH							
	Treated Water : 3000 LPH							
	Reject Water : 2000 LPH							

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

ಬಿಬಿಎಂಪಿ, ಬಾಪೂರಾಯನಪುರ ಉಪ ವಿಭಾಗ

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	RAW WATER PUMP							
	Purpose:-To feed the Dual Medial filter at pressure more than 2.00 bars which is minoperating pressure for filter?							
	SAND MEDIA FILTER							
	Purpose:-To remove the total suspendred solids, dirt, iron and reduce silt density index which can foul the members							
	ACTIVATE CARBON FILTER							
	Purpose:-To remove the total color, smell, odor from the water.							
	Media: Mixed bed sand media consisting of the following i) Gravel ii) Pebbles iii) carbon Average porosity 50 micron particulate size bed depth: 1500 mm pipe lines & Accessories: Pipe of PVC 10 Bartested pressure testing cock & pressure gauges at intlet - outlet of system							
	DOSING SYSTEM							
	Purpose: To do seantiscaling chemical to protect the scaling formation on RO Membranes							
	MICRON FILTER							
	Purpose:Toremovethefineparticlesipto05micronsandreducesiltdensitylevelstoacceptable level.							
	HIGH PRESSURE PUMP							
	Purpose : To feed the reverse Osmosis membrane atpressuremorethantheosmoticpressuretakinginto consideration flux rate, flow and recovery							
	RO membrane housing.							

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Purpose:To pack membrane and operate at high pressure.							
	RO MEMBRANES							
	Purpose: To remove the major part of TDS into 98% by Reverse Osmosis Membranes arranged and designed to give adequate flow the Recovery.							
	RO CLEANSING SYSTEM							
	ELECTRICAL PANEL							
	Purpose: A control panel is provided as a safety measure for the pumps & other electrical items.							
	Specifications a) Complete starters, over load relays, b) Voltmeter, Ammeter, MCB's indicating lights, c) Rocker switches for Dozers, d) incomers, Auto-Manual switches.							
	INSTRUMENTATION							
	Purpose: a) Flowmeter: To measure the online flow of water flowtec b) Low pressure switch: To protect RO pump from dry running c) High pressure switch: To protect RO pump from back pressure d) Pressure Gauges: For calculate AP for each unit in RO system							
	PH DOSING SYSTEM							

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Purpose to dose sodium Bi-carbonate for enhances product water SStillthe pre-filteration & SS from HPP to the premeter line termination point NRV's pressure relief valves, wherever needed the system will be on common SS base frame supply & manufacture of complete Reverse Osmosis plant stainless steel tank (2kl) Raw water tank (5kl) with stainless steel pipeline required for plant erection.	Nos						
	Kogilu		1				1.00	
	Kogilu layout		1				1.00	
	Kattigenehalli		1				1.00	
	Agrahara layout		1				1.00	
	Agrahara village		1				1.00	
	Basavalingappa nagara		1				1.00	
	Jakkur village		1				1.00	
							7.00	473800.00
	ELECTRIFCATION							
78	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Point						
	Kogilu		2.00	1.00			2.00	
	Kogilu layout		2.00	1.00			2.00	
	Kattigenehalli		2.00	1.00			2.00	
	Agrahara layout		2.00	1.00			2.00	
	Agrahara village		2.00	1.00			2.00	
	Basavalingappa nagara		2.00	1.00			2.00	
	Jakkur village		2.00	1.00			2.00	
							14.00	225.00

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
79	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Long point above 6Mtr upto 10Mtr from tapping point to out let via switch with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Point						
	Kogilu		2.00	1.00			2.00	
	Kogilu layout		2.00	1.00			2.00	
	Kattigenehalli		2.00	1.00			2.00	
	Agrahara layout		2.00	1.00			2.00	
	Agrahara village		2.00	1.00			2.00	
	Basavalingappa nagara		2.00	1.00			2.00	
	Jakkur village		2.00	1.00			2.00	
							14.00	**334.00**
80	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete - (1.6.5) 4"x4"x3" (101x101x76mm) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Each						
	Kogilu		12.00	1.00			12.00	
	Kogilu layout		12.00	1.00			12.00	
	Kattigenehalli		12.00	1.00			12.00	
	Agrahara layout		12.00	1.00			12.00	
	Agrahara village		12.00	1.00			12.00	
	Basavalingappa nagara		12.00	1.00			12.00	
	Jakkur village		12.00	1.00			12.00	
							84.00	**63.00**
81	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete - (1.6.1) 12"x12"x3" (300x300x76mm) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Each						
	Kogilu		6.00	1.00			6.00	
	Kogilu layout		6.00	1.00			6.00	
	Kattigenehalli		6.00	1.00			6.00	
	Agrahara layout		6.00	1.00			6.00	
	Agrahara village		6.00	1.00			6.00	

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Basavalingappa nagara		6.00	1.00			6.00	
	Jakkur village		6.00	1.00			6.00	
							42.00	107.00
82	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete (1.6.3)10"x7"x3" (254x178x76mm) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Each						
	Kogilu		6.00	1.00			6.00	
	Kogilu layout		6.00	1.00			6.00	
	Kattigenehalli		6.00	1.00			6.00	
	Agrahara layout		6.00	1.00			6.00	
	Agrahara village		6.00	1.00			6.00	
	Basavalingappa nagara		6.00	1.00			6.00	
	Jakkur village		6.00	1.00			6.00	
							42.00	80.00
83	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Sqcm						
	Kogilu		1.00	6666.66			6666.66	
	Kogilu layout		1.00	6666.66			6666.66	
	Kattigenehalli		1.00	6666.66			6666.66	
	Agrahara layout		1.00	6666.66			6666.66	
	Agrahara village		1.00	6666.66			6666.66	
	Basavalingappa nagara		1.00	6666.66			6666.66	
	Jakkur village		1.00	6666.66			6666.66	
							46666.62	0.23
84	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete. upto 50mm conduit in brick wall with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Mtr						
	Kogilu		1.00	10.00			10.00	
	Kogilu layout		1.00	10.00			10.00	
	Kattigenehalli		1.00	10.00			10.00	
	Agrahara layout		1.00	10.00			10.00	
	Agrahara village		1.00	10.00			10.00	

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Basavalingappa nagara		1.00	10.00			10.00	
	Jakkur village		1.00	10.00			10.00	
							70.00	**19.00**
85	Supplying heavy gauge PVC Conduit Pipe 19/20 mm dia 2 mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Mtr						
	Kogilu		1.00	10.00			10.00	
	Kogilu layout		1.00	10.00			10.00	
	Kattigenehalli		1.00	10.00			10.00	
	Agrahara layout		1.00	10.00			10.00	
	Agrahara village		1.00	10.00			10.00	
	Basavalingappa nagara		1.00	10.00			10.00	
	Jakkur village		1.00	10.00			10.00	
							70.00	**52.00**
86	Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamps. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Each						
	Kogilu		2.00				2.00	
	Kogilu layout		2.00				2.00	
	Kattigenehalli		2.00				2.00	
	Agrahara layout		2.00				2.00	
	Agrahara village		2.00				2.00	
	Basavalingappa nagara		2.00				2.00	
	Jakkur village		2.00				2.00	
							14.00	**81.00**
87	Supplying patti type fluorescent tube light fitting of 2' - suitable for 14 watts fluorescent tube fitting, made out of M.S. Sheet and stove enameled with HF Electronic Ballast , locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC . Supply including T5 lamp. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Each						
	Kogilu		4.00				4.00	
	Kogilu layout		4.00				4.00	
	Kattigenehalli		4.00				4.00	

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Agrahara layout		4.00				4.00	
	Agrahara village		4.00				4.00	
	Basavalingappa nagara		4.00				4.00	
	Jakkur village		4.00				4.00	
							28.00	**544.00**
88	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A 1.5 sqmm with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Mtr						
	Kogilu		1.00	5.00			5.00	
	Kogilu layout		1.00	5.00			5.00	
	Kattigenehalli		1.00	5.00			5.00	
	Agrahara layout		1.00	5.00			5.00	
	Agrahara village		1.00	5.00			5.00	
	Basavalingappa nagara		1.00	5.00			5.00	
	Jakkur village		1.00	5.00			5.00	
							35.00	17.00
89	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 60/100 watts 230V GLS lamp. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Each						
	Kogilu		3.00				3.00	
	Kogilu layout		3.00				3.00	
	Kattigenehalli		3.00				3.00	
	Agrahara layout		3.00				3.00	
	Agrahara village		3.00				3.00	
	Basavalingappa nagara		3.00				3.00	
	Jakkur village		3.00				3.00	
							21.00	687.00
90	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							

P.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
		No						
	Kogilu		1.00				1.00	
	Kogilu layout		1.00				1.00	
	Kattigenehalli		1.00				1.00	
	Agrahara layout		1.00				1.00	
	Agrahara village		1.00				1.00	
	Basavalingappa nagara		1.00				1.00	
	Jakkur village		1.00				1.00	
							7.00	2509.00

16/05/18

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

Name of Work:- Construction of RO water purifier plant at Kogilu, Kogilu layout, Kattigenahalli, Agrahara layout, Agrahara village, Basavalingappa nagara, Jakkur village in Ward No. 5 Jakkur, Byatarayanapura Sub Division.

STEEL CALCULATION

Sl No	Description	Dia in mm	Spacing of bar mm	Nos	Cutting length of Bar	Total length of bar	Weight/m in Kgs	Total Wt of Kgs
1	Slab Main Bars	12	150	19	5.53	105.07	0.89	93.51
		12	150	19	4.55	86.45	0.89	76.94
		12	150	19	0.91	17.29	0.89	15.38
2	Slab Distribution Bars	12	150	31	5.55	172.05	0.89	153.12
3	Footing Mat	16	150	48	1.50	72.00	1.58	113.76
4	Column	16	200	16	4.10	65.60	1.58	103.64
5	Stirups for Column	10	175	94	0.92	86.48	0.62	53.61
6	Plinth Beam	16	150	4	18.40	73.60	1.58	116.28
7	Stirups for Plinth Beam	10	150	123	0.80	98.40	0.62	61.00
8	Lintel	16	100	4	18.40	73.60	1.58	116.28
10	Stirups for Lintel	10	150	123	0.70	86.10	0.62	53.38
11	Chejja Main Bars	10	150	12	0.90	10.80	0.62	6.69
12	Chejja Distribution Bars	10	150	4	0.30	1.20	0.62	0.74
							Kgs	964.33
							MT	0.964

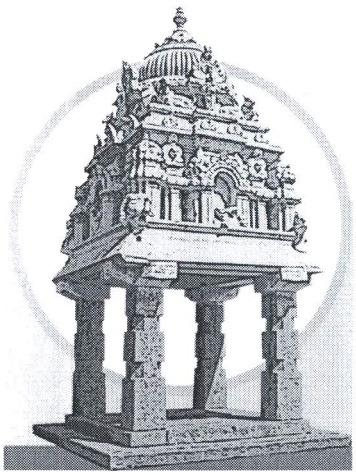
B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE



NAME OF WORK: CONSTRUCTION OF BENGALURU ONE CENTER BUILDING AT VINAYAKANAGARA AND AGRAHARA LAYOUT IN WARD NO 05 JAKKUR, BYATARAYANAPURA SUB DIVISION.

CONSULTANT:

BVH CONSULTING ENGINEERS

41/2, 6TH MAIN ROAD JNANAJYOTHI NAGAR,
MALATHALLI, BANGALORE-560056
PHONE : 9964339888, LANDLINE:08023241948
EMAIL :mbnk2278@yahoo.com

Bruhat Bengaluru Mahanagara Palike								
BYATARAYANAPURA DIVISION								
Job No: 005-16-000052 26617								
Name of Agency :- K.R.Santoshkumar								
Bill No :- 1st & Part Bill								
Name of work:	Construction of Bengaluru One Centre Building at Vinayakanagara and Agrahara layout in Ward No. 5 Jakkur, Byatarayanapura Sub Division.							
BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
54	KSRB 2-2.2 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	Cum						
	Vinayakanagara							
	For Footings		4	1.30	1.30	1.50	10.14	
			4	1.30	1.30	2.50	16.90	
	Centre Line		1	26.70	0.90	0.80	19.22	
	Deduction for Columns		8	1.30	0.90	0.70	-6.55	
	Agrahara layout							
	For Footings		8	1.30	1.30	1.50	20.28	
	Centre Line		1	26.70	0.90	0.80	19.22	
	Deduction for Columns		8	1.30	0.90	0.70	-6.55	
							72.66	**188.00**
56	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	Cum						
	Vinayakanagara							
	For Wall Portion		1	26.70	0.75	0.60	12.02	
	Deduction for Columns		8	1.30	0.75	0.60	-4.68	
	Agrahara layout							
	For Wall Portion		1	26.70	0.75	0.60	12.02	
	Deduction for Columns		8	1.30	0.75	0.60	-4.68	
							14.68	**4160.00**

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
57	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		Cum						
	Vinayakanagara							
	For Wall Portion		1	26.70	0.45	0.45	5.41	
	Deduction for Columns		8	1.30	0.45	0.45	-2.11	
	Agrahara layout							
	For Wall Portion		1	26.70	0.45	0.45	5.41	
	Deduction for Columns		8	1.30	0.45	0.45	-2.11	
							6.60	**4973.00**
91	KSRB 2.14-1: Extra for additional lift of 1.5m. or part thereof for excavation In loose / soft or hard soil including cost of materials, labour complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	Cum						
	Vinayakanagara							
	For Footings		8	1.30	1.30	1.00	13.52	
	Agrahara layout							
	For Footings		8	1.30	1.30	1.00	13.52	
							27.04	**201.00**
92	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 465 cum machine mixed, machine mixed,concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth, including cost of all material, labour HOM Machinery curing complete as per specification, with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	Cum						
	Vinayakanagara							
	For Footings		8	1.30	1.30	0.15	2.03	
	For Plinth Beam		1	26.70	0.20	0.15	0.80	
	Agrahara layout							
	For Footings		8	1.30	1.30	0.15	2.03	
	For Plinth Beam		1	26.70	0.20	0.15	0.80	
							5.66	**5014.00**

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

28/12/2018

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
93	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Footings		8	4.80		0.45	17.28	
	Agrahara layout							
	For Footings		8	4.80		0.45	17.28	
							34.56	**230.00**
94	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Plinth Beam		2	26.70		0.30	16.02	
	Agrahara layout							
	For Plinth Beam		2	26.70		0.30	16.02	
							32.04	**291.00**
95	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Columns		4	1.10		4.90	21.56	
			4	1.10		5.90	25.96	
	Agrahara layout							
	For Columns		8	1.10		4.90	43.12	
							90.64	**364.00**

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
60	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Cum**						
	Vinayakanagara							
	For Footings		8	1.20	1.20	0.50	5.76	
	For Columns		4	0.20	0.35	4.90	1.37	
			4	0.20	0.35	5.90	1.65	
	For Plinth Beam		1	26.70	0.20	0.30	1.60	
	Agrahara layout							
	For Footings		8	1.20	1.20	0.50	5.76	
	For Columns		8	0.20	0.35	4.90	2.74	
	For Plinth Beam		1	26.70	0.20	0.30	1.60	
							20.48	**5973.00**
96	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitonsupto 3.50m from ground level. Specification No. KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Roof Slab		1	5.35	8.00		42.80	
			1	5.35	0.90		4.82	
	Agrahara layout							
	For Roof Slab		1	5.35	8.00		42.80	
			1	5.35	0.90		4.82	
							95.23	**311.00**

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

9/3/2018

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
97	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	Sqm						
	Vinayakanagara							
	For Lintel		2	26.70		0.15	8.01	
	For Roof Beam		2	35.80		0.45	32.22	
	Agrahara layout							
	For Lintel		2	26.70		0.15	8.01	
	For Roof Beam		2	35.80		0.45	32.22	
							80.46	254.00
98	KSRB 4-6.10 : Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	Sqm						
	Vinayakanagara							
	For Chejjas		8	1.40	0.90		10.08	
	Agrahara layout							
	For Chejjas		8	1.40	0.90		10.08	
							20.16	268.00
63	KSRB 4.9.1: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
		MT						
		2					2.321	
							4.64	69075.00

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

16/3/2018

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
61	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles, and beams retaining walls, return walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Cum**						
	Vinayakanagara							
	For Lintel		1	26.70	0.20	0.15	0.80	
	For Roof Beam		1	35.80	0.20	0.45	3.22	
	For Roof Slab		1	4.95	7.60	0.15	5.64	
			1	5.35	0.90	0.15	0.72	
	Agrahara layout							
	For Lintel		1	26.70	0.20	0.15	0.80	
	For Roof Beam		1	35.80	0.20	0.45	3.22	
	For Roof Slab		1	4.95	7.60	0.15	5.64	
			1	5.35	0.90	0.15	0.72	
							20.78	**6119.00**
62	KSRB 4.2.10 : Providing and laying in position reinforced cement concrete ofmix M20 with OPC cement @ 24kgs, with 12 mm and down size graded granite metal coarse aggregates @ 0.5175 cum and fine aggregates @ 0.345 cum with superplastisiser @ 0.225lts,machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor lever, including cost of all materials, labour, HOM of machinery, curing, complete as per specification. Specification NO. KBS 4.1, 4.6 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Chejjas		8	1.40	0.90		10.08	
	Agrahara layout							
	For Chejjas		8	1.40	0.90		10.08	
							20.16	**192.00**

B.V.H. Consulting Engineers Bangalore

Consultant

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
99	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto SO m. and lift upto 1.S m. including cost of all labour complete as per specifications. specification. No. KBS(with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Cum**						
	Vinayakanagara							
	Around the Footings		8	1.30	1.30	2.40	32.45	
	Deduction for Columns		8	0.20	0.35	2.40	-1.34	
	Agrahara layout							
	Around the Footings		8	1.30	1.30	2.40	32.45	
	Deduction for Columns		8	0.20	0.35	2.40	-1.34	
							62.21	**126.00**
100	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Walls		1	26.70		2.65	70.76	
	For Parapet Wall		1	28.50		1.20	34.20	
	Deduction for Openings							
	Door		1	1.50		2.10	-3.15	
	Windows		8	1.20		1.20	-11.52	
	Agrahara layout							
	For Walls		1	26.70		2.65	70.76	
	For Parapet Wall		1	28.50		1.20	34.20	
	Deduction for Openings							
	Door		1	1.50		2.10	-3.15	
	Windows		8	1.20		1.20	-11.52	
							180.57	**931.00**
101	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						

B.V.H. Consulting Engineers Bangalore

Consultant Assistant Engineer Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Vinayakanagara							
	For External Walls		1	26.70		3.15	84.11	
	For Parapet Wall		1	28.50		0.90	25.65	
	Deduction for Openings							
	Door		1	1.50		2.10	-3.15	
	Windows		8	1.20		1.20	-11.52	
	Agrahara layout							
	For External Walls		1	26.70		3.15	84.11	
	For Parapet Wall		1	28.50		0.90	25.65	
	Deduction for Openings							
	Door		1	1.50		2.10	-3.15	
	Windows		8	1.20		1.20	-11.52	
							190.17	**207.00**
102	KSRB 15.3.2 Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Inside Surface of the Wall		2	7.60		3.00	45.60	
			2	4.95		3.00	29.70	
	Agrahara layout							
	For Inside Surface of the Wall		2	7.60		3.00	45.60	
			2	4.95		3.00	29.70	
							150.60	**164.00**
103	KSRB 15.3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Ceiling		1	4.95	7.60		37.62	
			1	4.95	0.90		4.46	
	Agrahara layout							
	For Ceiling		1	4.95	7.60		37.62	
			1	4.95	0.90		4.46	
							84.15	**192.00**

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
104	KSRB 15.10.2 Providing white washing for every one additional coat with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	Sqm						
	Vinayakanagara							
	For Inside Surface of the Wall		2	7.60		3.00	45.60	
			2	4.95		3.00	29.70	
	Agrahara layout							
	For Inside Surface of the Wall		2	7.60		3.00	45.60	
			2	4.95		3.00	29.70	
							150.60	**3.97**
105	KSRB 15.10.4 Providing white washing to ceiling and / or sloping roof surface with additional one coat with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	Sqm						
	Vinayakanagara							
	For Ceiling		1	4.95	7.60		37.62	
			1	4.95	0.90		4.46	
	Agrahara layout							
	For Ceiling		1	4.95	7.60		37.62	
			1	4.95	0.90		4.46	
							84.15	**3.97**
106	KSRB 15-16.1: providing and finishing external walls in tow coats with water proof cement paint of approve brand and shade to give an even shade after thourghly brooming the surface to remove all dirt and losse powdered material, free from mortar dops and other foreign matter cost of materials, labours, complete as per specifications with Primer with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	Sqm						
	Vinayakanagara							
	For External Walls		1	26.70		3.15	84.11	
	For Parapet Wall		1	28.50		0.90	25.65	
	Deduction for Openings							
	Door		1	1.50		2.10	-3.15	
	Windows		8	1.20		1.20	-11.52	
	Agrahara layout							
	For External Walls		1	26.70		3.15	84.11	
	For Parapet Wall		1	28.50		0.90	25.65	

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Deduction for Openings							
	Door		1	1.50		2.10	-3.15	
	Windows		8	1.20		1.20	-11.52	
							190.17	83.00
107	Providing and applying two coats with Plastic emulsion paint of approved brand wall surface to a give an even approved shade after throuughly brushing the surface,free from mortar drops and other foreign matter, including priming , including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications,with primer.For internal walls. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Inside Surface of the Wall		2	7.60		3.00	45.60	
			2	4.95		3.00	29.70	
	Agrahara layout							
	For Inside Surface of the Wall		2	7.60		3.00	45.60	
			2	4.95		3.00	29.70	
							150.60	89.00
108	Providing and applying two coats with Plastic emulsion paint of approved brand wall surface to a give an even approved shade after throuughly brushing the surface,free from mortar drops and other foreign matter, including priming , including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications,with primer. For internal walls. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Ceiling		1	4.95	7.60		37.62	
			1	4.95	0.90		4.46	
	Agrahara layout							
	For Ceiling		1	4.95	7.60		37.62	
			1	4.95	0.90		4.46	
							84.15	93.00
109	Providing vitrified tiles 60 x 60cms of approved make, shade and size for flooring laid on a bed of 12mm thick cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing complete as per specification. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							

B.V.H. Consulting Engineers Bangalore

Consultant

24/4/18

Assistant Engineer

24/09/18

24/4/2018

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	For Internal Floor Area		1.00	4.95	7.60		37.62	
	Agrahara layout							
	For Internal Floor Area		1.00	4.95	7.60		37.62	
							75.24	**1105.00**
110	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Skirting		1	25.10		0.10	2.51	
	Deduction for Opening		1	1.50		0.10	-0.15	
	Agrahara layout							
	For Skirting		1	25.10		0.10	2.51	
	Deduction for Opening		1	1.50		0.10	-0.15	
							4.72	**1475.00**
111	KSRB 9.4-2 : Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Cum**						
	Vinayakanagara							
	For Door		1.00	7.20	0.13	0.13	0.11	
	Agrahara layout							
	For Door		1.00	7.20	0.13	0.13	0.11	
							0.23	**102197.00**
112	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
	Vinayakanagara							
	For Door		1.00	1.50		2.10	3.15	
	Agrahara layout							
	For Door		1.00	1.50		2.10	3.15	
							6.30	**4613.00**
113	KSRB 7.9:Providing and fixing .S.gill work for windows and ventilators using M.S.flats, or M.S. square rods, or combination of M.S.flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 . with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Kgs**						
	Vinayakanagara							
			8.00	1.20		1.20	241.92	
	Agrahara layout							
			8.00	1.20		1.20	241.92	
							483.84	**78.00**
114	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS using aluminium section anodized to 12 - 15 microns. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Windows		8.00	1.20		1.20	11.52	
	Agrahara layout							
	For Windows		8.00	1.20		1.20	11.52	

B.V.H. Consulting Engineers Bangalore

Consultant Assistant Engineer Assistant Executive Engineer

BOQ Item No	Description of Work	Unit	No.	L	B	D	Qty	Rate
							23.04	3794.00
115	KSRB 15-17.4 : Applying priming coat over new wood surface and / or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Door		1.00	1.50		2.10	3.15	
	Agrahara layout							
	For Door		1.00	1.50		2.10	3.15	
							6.30	**31.00**
116	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work							
	Bengaluru One	**Sqm**						
	Vinayakanagara							
	For Door		1.00	1.50		2.10	3.15	
	Agrahara layout							
	For Door		1.00	1.50		2.10	3.15	
							6.30	**83.00**

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer

Name of work:- Construction of Bengaluru One Centre Building at Vinayakanagara and Agrahara layout in Ward No. 5 Jakkur, Byatarayanapura Sub Division.								
STEEL CALCULATION								
Sl No	Discription	Dia in mm	Spacing of bar mm	Nos	Cutting length of Bar	Total length of bar	Weight/m in Kgs	Total Wt of Kgs
1	Slab Main Bars	12	150	26	7.60	197.60	0.89	175.86
		12	150	26	4.95	128.70	0.89	114.54
		12	150	26	0.91	23.66	0.89	21.05
2	Slab Distribution Bars	12	150	34	7.60	258.40	0.89	229.97
3	Roof Beam on External Walls	16	150	5	26.70	133.50	1.58	210.93
4	Roof Beam for Center Span	16	150	10	5.01	50.10	1.58	79.15
5	Stirups for Beam on External Walls	10	250	89	1.30	115.70	0.62	71.73
6	Stirups for Center Span Beam	10	250	20	1.30	26.00	0.62	16.12
7	Footing Mat	16	150	96	2.10	201.60	1.58	318.52
8	Column	16	100	48	5.20	249.60	1.58	394.36
9	Stirups for Column	10	200	210	1.00	210.00	0.62	130.20
10	Plinth Beam	16	150	4	26.70	106.80	1.58	168.74
11	Stirups for Plinth Beam	10	200	134	1.00	134.00	0.62	83.08
12	Lintel	16	100	4	26.70	106.80	1.58	168.74
13	Stirups for Lintel	10	200	134	0.70	93.80	0.62	58.15
14	Chejja Main Bars	12	150	64	1.10	70.40	0.89	62.65
15	Chejja Distribution Bars	10	150	40	0.70	28.00	0.62	17.36
							Kgs	2321.15
							MT	2.321

B.V.H. Consulting Engineers Bangalore

Consultant

Assistant Engineer

Assistant Executive Engineer